TRANSPO®
INDUSTRIES, Inc.
The Smart Solutions Company

Pole-Safe®

Breakaway Light Pole Support System

Saving Lives with Breakaway Support

Transpo's Pole-Safe® is an omni-directional breakaway support system for light poles and other roadside elements located within roadside clear zones or other locations vulnerable to vehicular impacts. The primary component of the system is a high strength coupling, designed to break away quickly and cleanly upon impact, thus saving lives and reducing property damage costs. Pole-Safe® is omni-directional, meaning the system breaks away with consistant, predictable behavior, regardless of the vehicle's angle of impact. Pole-Safe® has been vehicle crash-tested in accordance with NCHRP Report 350, and is approved for use on all FHWA funded projects.

Features and Advantages

- Superior Breakaway Performance
- High Structural Capacity
- High Durability
- Easy to Install and Maintain
- Low Cost

TESTED AND APPROVED TO NCHRP 350

TRANSPO® INDUSTRIES, Inc.

Pole-Safe®

Breakaway Light Pole Support System

Features and Advantages

Superior Breakaway Performance: The precisely machined geometry of the Pole-Safe® coupling design causes the system to fracture safely at relatively low force and energy levels. This unique capacity is better than AASHTO's requirements for impact velocity change. The low stub projection after impact eliminates under carriage damage to the vehicle, thus reducing the risk of fire.

High Structural Capacity: Pole-Safe® is available in a variety of models, designed to support many different pole configurations subjected to various loading conditions. The high strength coupling design offers exceptional resistance to forces created by wind and dead loads. All Pole-Safe® crash tests were conducted using a 55' high, 930 lb. pole which is the maximum allowable mass as specified by AASHTO. The unique physical properties and breakaway performance of Pole-Safe® gives designers the greatest flexibility in sizing poles for specific lighting requirements.

High Durability: All Pole-Safe® couplings and hardware are hot-dip galvanized in accordance with ASTM A153 to provide proven corrosion protection in harsh roadside environments. Additionally, independent fatigue testing has demonstrated that Pole-Safe® couplings are capable of withstanding more than two million loading cycles with no reduction in structural capacity.

Easy to Install and Maintain: No special tools or equipment are required to properly install and maintain Pole-Safe®. All components are easily secured using the American Institute of Steel Construction (AISC) turn-of-nut tightening method, which eliminates the need for precise torque levels on bolts.

Low Cost: Pole-Safe® is the lowest cost breakaway system for poles. Low initial cost coupled with high structural capacity and zero maintenance makes Pole-Safe® the most cost-effective solution for all breakaway light poles.

Pole-Safe® 4000 Series:

Model Number	Anchor Bolt Diameter
4050	1/2" (12.7mm)
4062	5/8" (16mm)
4075	3/4" (19mm)
4100	1" (25mm)
4125	1-1/4" (32mm)

Pole-Safe® 5000 Series:

Model Number	Anchor Socket Diameter
5062	5/8" (16 mm)
5075	3/4" (19mm)
5100	1" (25 mm)
5125	1" (25mm)

Applications

- Light Poles
- Traffic Monitoring Poles
- Weather Station Poles
- Call Boxes
- Residential Poles
- Any Other Roadside Element Requiring Breakaway Support

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